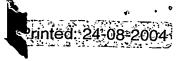
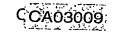


WHAT IS CLAIMED IS:

- 1. A cathode for use in the refining of metals, comprising:
- a substantially flat deposition plate fixedly attached along an upper edge thereof to an elongate hanger bar thereby defining a connection;
- a protective cladding abutting said deposition plate and at least partially surrounding said hanger bar such that a cavity is defined in the region of said connection; and
- a corrosion resistant material filling said cavity.
- 2. The cathode as recited in claim 1, wherein said deposition plate is attached to said hanger bar by means of at least one weld.
- 3. The cathode as recited in claim 1, wherein said protective cladding is preformed.
- 4. The cathode as recited in claim 1, wherein said corrosion resistant material is an epoxy resin.
- 5. The cathode as recited in claim 1, wherein said deposition plate and said cladding are fabricated from stainless steel.
- 6. The cathode as recited in claim 1, wherein said cladding is attached to said deposition plate by means of at least one weld.
- 7. The cathode as recited in claim 1, wherein an inverted v-profile is machined in a lower edge of said deposition plate.
- 8. A method for fabricating a cathode for use in the refining of metals, said cathode being of the type comprising a deposition plate for electrodepositing





metals, said method comprising the steps of:

- (a) providing a substantially flat deposition plate having an upper edge;
- (b) fastening an elongate hanger bar on said upper edge of said deposition plate, thereby providing a deposition plate assembly;
- (c) securing a protective cladding to said deposition plate assembly so as to substantially overlay the area of fastening between said hanger bar and said upper edge of said deposition plate, thereby defining a cavity between said cladding and said deposition plate assembly; and
- (d) filling said cavity with a corrosion resistant material thereby providing a fabricated cathode.
- 9. The method for fabricating a cathode as in claim 8, wherein said fastening step includes welding said upper edge to said hanger bar.
- 10. The method for fabricating a cathode as in claim 8, wherein said filling step comprises boring at least one hole in said protective cladding and injecting a liquid phase of said corrosion resistant material into said cavity, said corrosion resistant material subsequently hardening into a solid phase.
- 11. The method for fabricating a cathode as in claim 10, wherein said corrosion resistant material is an epoxy resin.
- 12. The method for fabricating a cathode as in claim 8, wherein said attaching step comprises welding said cladding to said deposition plate by means of at least one weld.